

# Offsite Best Management Practice (BMP) Program

Public Works & Utilities/Stormwater Management

November 24, 2015



# Collaboration

- Stormwater Advisory Board support
- Development community support
- KDHE support
- EPA support
- Win-Win-Win

# New Program

- Cutting Edge
- Provides alternatives to existing water quality BMP requirements
- Rural, offsite BMPs in lieu of onsite urban BMPs to address sediment
- Lower costs(upfront and long term) for development
- Voluntary participation

# New Program

- Greater amount of sediment reduction achieved
- Sustainable program
- Water quality benefits continued in perpetuity
- No additional liability for City
- No rate payer impacts

## Current Onsite BMP Existing Program

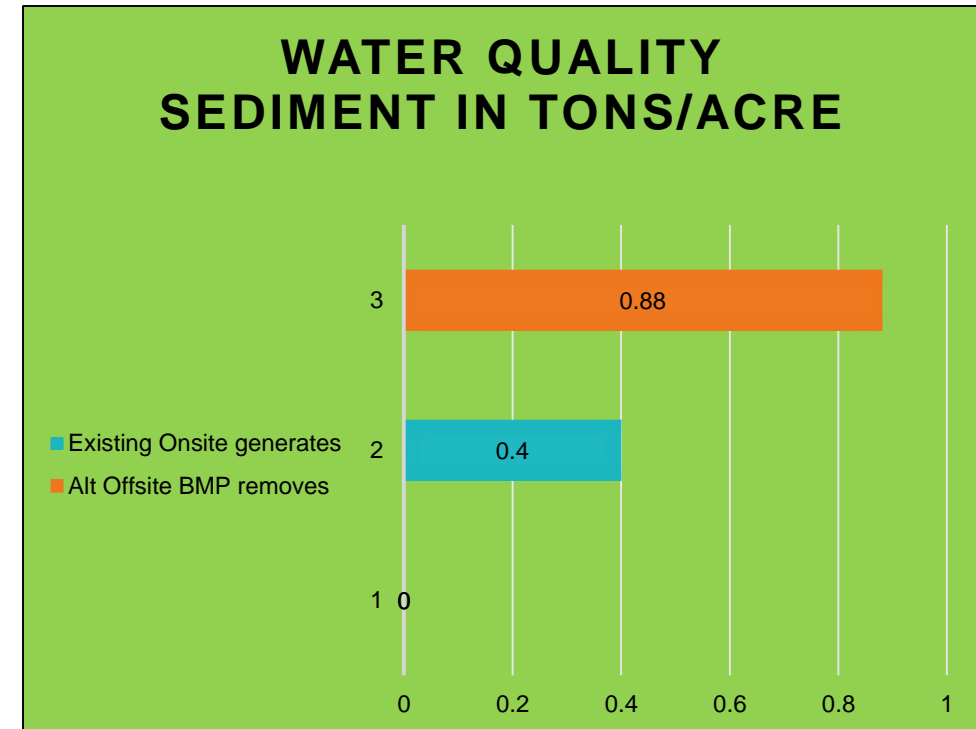
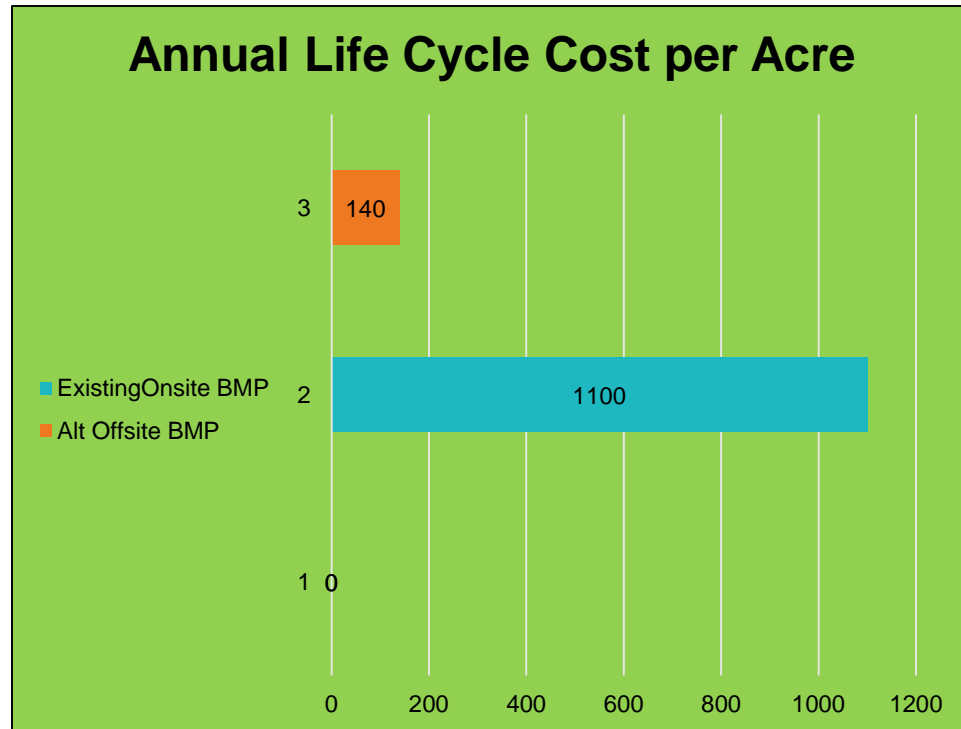
- City MS4 permit with KDHE for Total Suspended Solids (TSS)
- Development required to meet water quality treatment
- Substantial expense involved
- What if the SWAB could find a cheaper method?

# Program Cost Factors

- Offsite to onsite sediment reduction ratio = 2:1 (KDHE minimum requirement)
- Percent of acreage dropping out of the program every 5 years = 100% (worst case)
- Compliance contingency = 10% (vetted with regulators)
- Assessed average annual growth = 200 acres
- City provided initial funds = \$42,000 from operating budget (paid back in 7 years)
- Cost per acre per year = \$38

# Program Benefits

Existing program and alternative program comparison:



# Suggested Offsite BMP Program

- Enroll upstream agricultural fields in sediment reduction practice
- Agriculture sediment into river system is substantially reduced
- Kansas State University Report
- Private development would pay for this program enrollment

# Practices

No-till wheat field in wheat residue with grass filter strip



Conventional tillage wheat field, no residue present



# Funding

- City to provide start-up funds for the program (bank)
- Development pays an annual fee per acre developed
- Annual fee adjustment could be recommended (SWAB)
- Development would only install a floatable trash collector inlet

# Next Steps

- Council support for program
- Solicit letters of support from KDHE and EPA
- Legislative changes to authorize fees
- Council actions:
  - Set fee
  - Authorize start up fund
  - Amend ordinance
  - Execute contract with program administration (WRAPS)

# Questions

# Offsite BMP Program

## Public Works & Utilities/Stormwater Management

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